

CLAIMS

1. A packet communication apparatus comprising:
extracting means for extracting transmit power
control information from a packet signal comprised of
transmission units each including the transmit power
control information;

determining means for determining quality deterioration of the packet signal; and

control means for performing control for halting
10 transmit power control on a transmission unit to be
transmitted after determining the quality deterioration
on the packet signal, based on a determined result.

2. The packet communication apparatus according to claim 1, further comprising:

15 storage means for storing the transmit power
control information for the unit transmission portion
to be transmitted after determining the quality
deterioration on the packet signal;
wherein based on the transmit power control information
20 stored in the storage means, the control means performs
the transmit power control on a beginning unit
transmission portion of a next packet.

3. A packet communication apparatus comprising:
extracting means for extracting transmit power
25 control information from packet signals each comprised
of transmission units each including the transmit power
control information, the packet signals being

control means for performing control for halting transmit power control on a transmission unit to be transmitted after determining the quality deterioration on a packet signal for the data channel signal, based on a determined result.

5. The packet communication apparatus according to claim 1, wherein the determining means determines the quality deterioration using the number of times the transmit power control information for increasing
20 transmit power is repeated successively.

extracting means for extracting transmit power control information from a packet signal comprised of transmission units each including the transmit power control information;

determining means for determining quality deterioration of the packet signal; and

control means for performing control for halting transmit power control on a transmission unit to be transmitted after determining the quality deterioration on the packet signal, based on a determined result.

7. A base station apparatus provided with a packet communication apparatus, said packet communication apparatus comprising:

10 extracting means for extracting transmit power control information from a packet signal comprised of transmission units each including the transmit power control information;

determining means for determining quality deterioration of the packet signal; and

control means for performing control for halting transmit power control on a transmission unit to be transmitted after determining the quality deterioration on the packet signal, based on a determined result.

20 8. A transmit power control method comprising the steps of:

extracting transmit power control information from a packet signal comprised of transmission units each including the transmit power control information;

25 determining quality deterioration of the packet signal;

performing control for halting transmit power

control on a transmission unit to be transmitted after determining the quality deterioration on the packet signal, based on a determined result; and

performing the transmit power control on a
5 beginning unit transmission portion of a next packet,
based on the transmit power control information for a
transmission unit after determining the quality
deterioration on the packet signal.

9. A transmit power control method comprising the
10 steps of:

extracting transmit power control information from
packet signals each comprised of transmission units each
including the transmit power control information, the
packet signals being transmitted using a data channel
15 and a control channel;

determining quality deterioration of each of the
packet signals;

performing control for halting transmit power
control on a transmission unit to be transmitted after
20 determining the quality deterioration on a packet signal
for the data channel signal, based on a determined
result; and

performing the transmit power control on a
beginning unit transmission portion of a next packet on
25 the data channel, based on the transmit power control
information for a last unit transmission portion in the
packet signal on the control channel.

10. The transmit power control method according to claim 8, wherein the quality deterioration is determined using the number of times the transmit power control information for increasing transmit power is repeated
5 successively.

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